

**KERA Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP12617b****Specification**

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**KERA Antibody (C-term) - Product Information**

Application	WB, IHC-P-Leica, FC,E
Primary Accession	<a href="#">O60938</a>
Other Accession	<a href="#">NP_008966.1</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	228-257

**KERA Antibody (C-term) - Additional Information****Gene ID** 11081**Other Names**

Keratocan, KTN, Keratan sulfate proteoglycan keratocan, KERA, SLRR2B

**Target/Specificity**

This KERA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 228-257 amino acids from the C-terminal region of human KERA.

**Dilution**

WB~~1:1000  
IHC-P-Leica~~1:500  
FC~~1:25

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

KERA Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**KERA Antibody (C-term) - Protein Information****Name** KERA**Synonyms** SLRR2B

**Function** May be important in developing and maintaining corneal transparency and for the structure of the stromal matrix.

**Cellular Location**

Secreted, extracellular space, extracellular matrix

**Tissue Location**

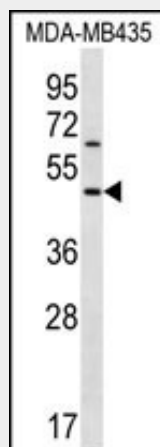
Cornea (at protein level) (PubMed:10802664, PubMed:11683372). Increased expression in the stroma of keratoconus corneas (PubMed:11683372). Also detected in trachea, and in low levels, in intestine, skeletal muscle, ovary, lung and putamen (PubMed:10802664).

**KERA Antibody (C-term) - Protocols**

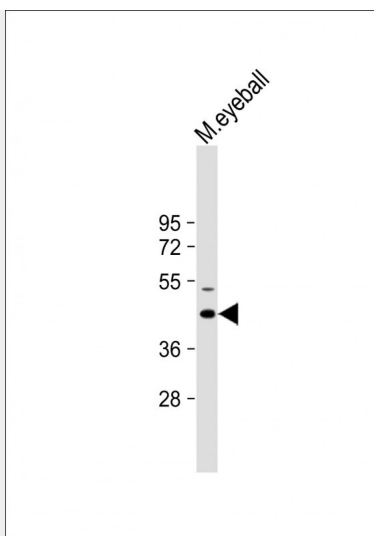
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

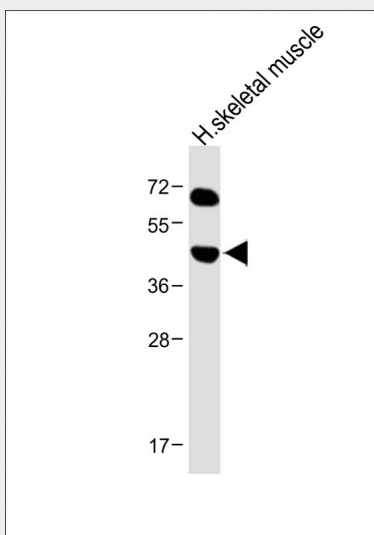
**KERA Antibody (C-term) - Images**



KERA Antibody (C-term) (Cat. #AP12617b) western blot analysis in MDA-MB435 cell line lysates (35ug/lane). This demonstrates the KERA antibody detected the KERA protein (arrow).



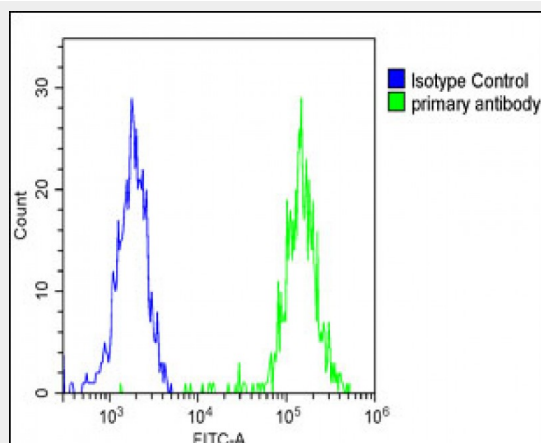
Anti-KERA Antibody (C-term) at 1:1000 dilution + Mouse eyeball lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 41 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Anti-KERA Antibody (C-term) at 1:1000 dilution + Human skeletal muscle lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 41 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue using AP12617b performed on the Leica® BOND RXm. Samples were incubated with primary antibody(1/500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Overlay histogram showing SK-OV-3 cells stained with AP12617b(green line). The cells were fixed with 2% paraformaldehyde and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed at 1/200 dilution for 40 min at Room temperature. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >10, 000 events was performed.

### **KERA Antibody (C-term) - Background**

The protein encoded by this gene is a keratan sulfate proteoglycan that is involved in corneal transparency. Defects in this gene are a cause of autosomal recessive cornea plana 2 (CNA2).

### **KERA Antibody (C-term) - References**

Aldave, A.J., et al. Invest. Ophthalmol. Vis. Sci. 51(8):4006-4012(2010)  
Dimasi, D.P., et al. Mol. Vis. 16, 562-569 (2010) :  
Wheeler, H.E., et al. PLoS Genet. 5 (10), E1000685 (2009) :  
Melrose, J., et al. Arthritis Res. Ther. 10 (4), R79 (2008) :

Liskova, P., et al. Mol. Vis. 13, 1339-1347 (2007) :